Monsanto INDUSTRIAL CHEMICALS CO.

FROM (NAME & LOCATION) W. M. Mees - T2F

DATE December 6, 1972

CC R. E. Keller - T1B [redacted]
E. S. Tucker - T2F

SUBJECT ANALYSIS OF MILK FOR PCBs

REFERENCE

TO : W. B. Papageorge
B2NA

Analyses of the Georgia Department of Agriculture milk samples for PCBs have been completed. The sample identification and results were as follows:

Sample No.	Producer	Lipid %	Calculated as Aroclor 1254 Whole Basis	Calculated as Aroclor 1254 Lipid Basis	DDE Whole Basis	DDE Lipid Basis
101B	Mrs. A.L. Mashburn Rt. 1, Kensington, Ga. 30727	3.81	N.D.*	N.D.*	4 ppb	120 ppb
102B	Fred & Ronald Hise Kensington, Ga. 30727	3.73	17 ppb	460 ppb	3 ppb	90 ppb
103B	Fred Bruning Rt. 1, Kensington, Ga. 30727	3.90	N.D.*	N.D.*	4 ppb	100 ppb
104B	Jeff Brown Rt. 1, Kensington, Ga. 30727	3.33 3.39	N.D.*	N.D.*	N.D.*	N.D.*
Detection Limit		-	11 ppb	270 ppb	3 ppb	70 ppb

*N.D. - None detected, less than the detection limit as indicated.

A recovery of 92.2% was obtained on a sample of processed milk spiked with 1 ppm of Aroclor 1254.

As expected, a clear fingerprint of Aroclor 1254 was not observed, nevertheless the peaks observed agreed in retention time with isomers of Aroclor 1254 and were calculated as PCBs. One pronounced peak appearing in all samples was identified by retention time as DDE and was calculated separately.

Our results indicate that the observed levels of PCBs were in all cases a factor 10 or more below the current FDA guideline of 5 ppm on a lipid basis (~0.2 ppm whole basis).

W. M. Mees

W. M. Mees

MONS 030145

db